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ABSTRACT OF THE INVENTION

An interlevel dielectric structure includes first and second dielectric layers between which are located lines of a conductive material with a dielectric material in spaces between the lines of conductive material, with the lower surface of the dielectric material extending lower than the lower surface of lines of conductive material adjacent thereto, and the upper surface of the dielectric material extending higher than the upper surface of conductive material adjacent thereto, thus reducing fringe and total capacitance between the lines of conductive material. The dielectric material, which has a dielectric constant of less than about 3.6, does not extend directly above the upper surface of the lines of conductive material, allowing formation of subsequent contacts down to the lines of conductive material without exposing the dielectric material to further processing. Various methods for forming the interlevel dielectric structure are disclosed.

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